

1 The Honorable Robert S. Lasnik
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10 UNITED STATES DISTRICT COURT FOR THE
11 WESTERN DISTRICT OF WASHINGTON
12 AT SEATTLE
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15 UNITED STATES OF AMERICA,
16 Plaintiff

NO. CR19-159 RSL

17 v.
18 PAIGE A. THOMPSON,
19 Defendant.

20 **UNITED STATES' OPPOSITION
21 TO DEFENDANT'S MOTION TO
22 DISMISS COUNTS 2 - 8**

23 **I. INTRODUCTION**

24 Pretrial motions under Federal Rule of Criminal Procedure 12(b) resolve legal
25 issues that can be decided without a trial on the merits. To the extent Thompson's
26 motion challenges the government's evidence at trial, and it should be denied for that
27 reason alone. Further, Thompson's protestations notwithstanding, the Computer Fraud
28 and Abuse Act (CFAA) charges against Thompson are not novel. Cases such as *United
States v. Morris*, 928 F.2d 504 (2d Cir. 1991), *United States v. Phillips*, 477 F.3d 215 (5th
Cir. 2007), and *Theofel v. Farey-Jones*, 359 F.3d 1066 (9th Cir. 2004) each address
situations where a person illegally accessed a computer network by "exploiting a known
mistake that relates to the essential nature of [the] access." *Theofel*, 359 F.3d at 1073
(interpreting "authorization" under the Stored Communications Act to be consistent with

1 “authorization” under the CFAA). Thompson’s actions here constitute straightforward
 2 violations of the CFAA commonly prosecuted by the United States.

3 Counts 2 through 8 (“the CFAA counts”) require the government to prove that
 4 Thompson intentionally accessed computers without authorization. Thompson bypassed
 5 an authentication gate, stole security credentials, and used those stolen credentials to steal
 6 data and plant malware to mine cryptocurrency. She knew that she was in a place she
 7 was not supposed to be, obtaining credentials that she had no permission to use. This is
 8 exactly the kind of external access without authorization that the CFAA prohibits.

9 Further, Thompson’s own communications show she was aware that she was
 10 breaking the law. This severely undercuts her argument that the CFAA counts are void
 11 for vagueness as applied to her case. And the government is not infringing on
 12 Thompson’s First Amendment rights to access to information or write code; rather, the
 13 government is taking the common-place step of prosecuting a computer hacker for illegal
 14 computer hacking.

15 II. FACTS

16 The facts of this case are set forth in the United States’ Opposition to Defendant’s
 17 Motion to Strike Cryptojacking Allegations and to Sever Count 8, incorporated herein by
 18 reference, and not repeated here. Additional facts relevant to this response are
 19 incorporated within the argument section that follows.

20 III. ARGUMENT AND AUTHORITIES

21 A. Unauthorized access includes intentionally exploiting a security flaw to gain 22 access to private digital information.

23 Each CFAA count¹ requires the government to prove that Thompson accessed
 24 computers “without authorization,” which is a common term in the CFAA and other
 25 technology statutes, such as the Stored Communications Act (SCA), 18 U.S.C. §§ 2701 *et*
 26 *seq.* Thompson claims that her access to the victim computer systems was not “without

27
 28 ¹ Counts 2 through 7 allege that Thompson obtained information by accessing computers without authorization, in
 violation of 18 U.S.C. §§ 1030(a)(2). Count 8 alleges that Thompson damaged victim computers by transmitting
 codes and commands to those computers without authorization, in violation of 18 U.S.C. §§ 1030(a)(5)(A).

1 authorization,” and therefore the CFAA counts should be dismissed as a matter of law.
 2 Aside from being a question of fact, not a question of law, Thompson is wrong about the
 3 applicable legal standard. Much like a common law trespass in physical space, courts
 4 look to accepted norms of authority and permission when analyzing intrusions in
 5 cyberspace. In this case, the Court must consider whether Thompson had permission to
 6 use certain access pathways and security credentials, and whether she used those features
 7 as they were intended to be used. Here, Thompson walked through a door that she knew
 8 had been left open by mistake, used her access to steal victim security credentials, and
 9 then used the stolen security credentials to obtain private victim data. This is
 10 unauthorized access under the CFAA.

11 **1. Thompson lacked permission to access the victim computers and her access
 12 was unauthorized.**

13 There are two ways to obtain information by computer in violation of section
 14 1030(a)(2) of the CFAA: unauthorized access and exceeding authorized access.
 15 Unauthorized access means “the person has not received permission to use the computer
 16 for any purpose (such as when a hacker accesses someone’s computer without any
 17 permission).” *LVRC Holdings LLC v. Brekka*, 581 F.3d 1127, 1135 (9th Cir. 2009);
 18 *accord Van Buren v. United States*, 141 S. Ct. 1648, 1658 (2021). Exceeding authorized
 19 access means a person has permission to access one area of a computer system, but
 20 obtains information from another area of the system that she does not have permission to
 21 access. *LVRC Holdings LLC*, 581 F.3d at 1127; *Van Buren*, 141 S. Ct at 1658, 1662.

22 Thompson is an external hacker (unauthorized access), not an internal hacker
 23 (exceeds authorized access). Unlike an internal hacker, an external hacker has no
 24 authorization to access internal company systems *at all*. From the beginning, there is less
 25 ambiguity about the permissible scope of an external hacker’s access to other people’s
 26 computers. To the extent Thompson is attempting to characterize herself as anything
 27 other than an external hacker, that argument has no support in either the CFAA’s
 28 legislative history or over 30 years’ worth of cases interpreting it. *See, e.g., Brekka*, 581

1 F.3d at 1135; *Van Buren*, 141 S. Ct. at 1658; *see also Morris*, 928 F.2d 504; *Phillips*, 477
 2 F.3d 215 (discussed in Section C, *infra*).

3 Thompson was not employed by any of the companies she hacked. She was not
 4 an authorized user of any of the security credentials she used to retrieve data and mine
 5 cryptocurrency. Sitting in her bedroom, she wrote a program to scan AWS clients for a
 6 specific vulnerability: an open port that allowed external internet traffic to communicate
 7 with an internal server. The port, Port 443, was supposed to block external traffic, but a
 8 misconfiguration allowed certain types of traffic to pass through to the internal server.
 9 Scanning for misconfigured ports is a bit like walking down the street, testing handles to
 10 see which doors have been left unlocked by mistake.

11 Once Thompson identified AWS clients with this specific misconfiguration, she
 12 wrote code to identify and assume an IAM role for each of the victim companies. An
 13 IAM role is a temporary security credential that is meant to be given by someone with
 14 authorization, to someone with authorization. The internal server gave Thompson these
 15 credentials because it mistook her for an authorized internal user. Once Thompson had
 16 the credentials, she wrote code to identify the data that was available to a person or entity
 17 who possessed those credentials. Then, depending on the permissions assigned to the
 18 credentials, Thompson copied the available data to her server and/or created new cloud
 19 servers to install and run cryptocurrency mining programs.

20 The entire time, Thompson knew that she was accessing private, internal computer
 21 systems because AWS clients had left Port 443 open by mistake. She knew she did not
 22 have permission to obtain or use the security credentials she obtained and used. And she
 23 did not stumble upon either the open port or the security credentials by accident; she
 24 wrote computer code to target and exploit AWS clients that had inadvertently exposed
 25 their internal servers and security credentials in this particular way.

26 //
 27 //
 28 //

1 **2. Authorization requires an affirmative act to grant permission, and**
 2 **permission is not validly obtained by manipulating and bypassing an**
 3 **authentication requirement.**

4 To obscure the fact she was an external hacker who lacked internal access
 5 privileges, Thompson’s motion conflates the *ability* to access information with an
 6 *authorization* to access information. Her argument presupposes that exposing private
 7 information to third parties, even inadvertently, makes that information “public,” such
 8 that anyone who *can* access the information is *authorized* to access the information.² *See*
 9 Dkt. No. 123 at 6. The government is unaware of any case law supporting such a
 10 proposition, and the defense did not cite any.

11 Thompson also asserts, again without any citation to authority, that a person does
 12 not violate the CFAA by “walking through an open door.” *Id.* at 7. This is an extreme
 13 oversimplification: the context of the intrusion always matters. “[D]ifferent spaces have
 14 different trespass norms.” Kerr, Orin S., *Norms of Computer Trespass*, 116 Colum. L.
 15 Rev. 1143, 1152 (2016) (“*Norms*”). It is negligent for a person to leave the front door of
 16 his house wide open; it is still illegal for a stranger to walk into that house and steal a
 17 television. Noticing an open door is not the same as having permission to enter the
 18 house. But Thompson wants the Court to treat digital information differently. She wants
 19 the Court to proclaim new law that a security flaw transforms private digital information
 20 into “public” information everyone has a right to access. *This* is the novel legal theory,
 21 not the government’s prosecution.

22 Thompson’s theory of “inadvertent authorization” contradicts established Ninth
 23 Circuit precedent. Although the CFAA itself does not define authorization, the Ninth
 24 Circuit has ascribed that term a “clear” and “straightforward” meaning. *United States v.*
 25 *Nosal* (“*Nosal II*”), 844 F.3d 1024, 1035 (9th Cir. 2016). Authorization is an affirmative
 26 action that gives someone permission to do something. *See* *LVRC Holdings LLC*, 581

28 ² Under Thompson’s interpretation of authorized access, a person who inadvertently discloses his password to a
 29 hacker through a phishing attempt has authorized the hacker to use his password and steal his information.

1 F.3d at 1133 (defining “authorization” as “permission or power granted by an authority”)
 2 (quoting RANDOM HOUSE UNABRIDGED DICTIONARY 139 (2001)); *see also* BLACK’S
 3 LAW DICTIONARY (10th ed. 2014) (defining “authorization” as “[o]fficial permission to
 4 do something”). If a computer system inadvertently discloses a password or security
 5 credentials to someone who misrepresents themselves as an authorized user, that is a
 6 mistake, not authorization. *See Restatement (Second) of Torts* §§ 173-174 (explaining
 7 that consent is not a valid defense to trespass when consent is obtained by fraud,
 8 misrepresentation, or mistake).

9 The Ninth Circuit has applied the same affirmative interpretation of
 10 “authorization” to an analogous provision of the Stored Communications Act (SCA).
 11 *Theofel*, 359 F.3d at 1072. The SCA provides a cause of action against anyone who
 12 “intentionally accesses without authorization a facility through which an electronic
 13 communication service is provided . . . and thereby obtains, alters, or prevents authorized
 14 access to a wire or electronic communication while it is in electronic storage.” 18 U.S.C.
 15 §§ 2701(a)(1), 2707(a) (emphasis added). In *Theofel*, the court reasoned that federal
 16 statutes are interpreted in light of common law, and the common law analogy for
 17 unauthorized access of digital information is trespass. *Id.* at 1072; *see also* H.R. Rep. No.
 18 99-612, at 5-6 (1986) (describing, in the legislative history of the CFAA, “the expanding
 19 group of electronic trespassers,” who trespass “just as much as if they broke a window
 20 and crawled into a home while the occupants were away.”); *see also* *Norms*, at 1146
 21 (arguing that “concepts of authorization [under the CFAA] rest on trespass norms”).

22 *Theofel* held that “[p]ermission to access a stored communication does not
 23 constitute valid authorization if it would not defeat a trespass claim in analogous
 24 circumstances.” *Id.* at 1073. An action is not “authorized” by the victim if the intruder
 25 “procures consent by exploiting a known mistake that relates to the essential nature of his
 26 access.” *Id.* The court in *Theofel* expressed concern about the very interpretation
 27 Thompson tries to advance here: “Allowing consent procured by known mistake to serve
 28 as a defense would seriously impair the statute’s operation. A hacker could use someone

1 else's password to break into a mail server and then claim the server "authorized" his
 2 access." *Id.*

3 By assuming the IAM role—a temporary security credential that Thompson knew
 4 she obtained by a *mistake* related to a server's configuration, not by
 5 *permission*—Thompson accessed victim computers and obtained information. Under the
 6 common law of trespass, this is not valid consent to entry. *See Restatement (Second) of*
Torts §§ 173-174. In addition to lacking authorization to use the IAM role, Thompson
 7 did not use that role as intended. *See Morris*, 928 F.2d at 509; *see also Norms*, at 1147,
 8 1171-72 (proposing a rule that, "when access requires authentication, whether access is
 9 authorized should hinge on whether it falls within the scope of delegated authority the
 10 authentication implies" and asserting that "[e]xploits that circumvent authentication
 11 mechanisms" are unauthorized). Thompson trespassed in cyberspace and her access to
 12 victim computer systems was "without authorization" under the CFAA.

14 **B. Thompson's due process rights were not violated because, in general, people
 15 understand that it is illegal to use security credentials that were not issued to
 16 them, and, as a computer programmer, Thompson herself understood this.**

17 Due process requires a law to give "a person of ordinary intelligence fair notice of
 18 what is prohibited." *United States v. Williams*, 553 U.S. 285, 304 (2008). This is a
 19 computer hacking case, and the CFAA is the federal computer hacking statute.
 20 "Congress enacted the CFAA in 1984 primarily to address the growing problem of
 21 computer hacking, recognizing that, "[i]n intentionally trespassing into someone else's
 22 computer files, the offender obtains at the very least information as to how to break into
 23 that computer system." *United States v. Nosal* ("*Nosal I*"), 676 F.3d 854, 858 (9th Cir.
 24 2012) (quoting S. Rep. No. 99-432, at 9 (1986), 1986 U.S.C.C.A.N. 2479, 2487 (Conf.
 25 Rep.)). As discussed in the preceding section, the CFAA incorporates common law
 26 principles of trespass that are well understood by a person of ordinary intelligence. And
 27 Thompson is not a person of ordinary intelligence; she is a computer programmer who
 28

1 worked for AWS as a systems engineer.³ This prosecution does not violate her due
 2 process rights.

3 One of the CFAA's due process protections is that unauthorized access must be
 4 *intentional*. In 1986, Congress changed the *mens rea* in section 1030(a)(2) from
 5 "knowingly" to "intentionally" in order to emphasize that "intentional acts of
 6 unauthorized access—rather than mistaken, inadvertent, or careless ones—are precisely
 7 what the Committee intends to proscribe." S. Rep. No. 432, 99th Cong., 2 Sess.,
 8 *reprinted in* 1986 U.S.C.C.A.N. 2479, 2483. This standard focuses CFAA prosecutions
 9 on people "whose conduct evinces a clear intent to enter, without proper authorization,
 10 computer files or data belonging to another." *Id.* at 2484. There is no due process
 11 problem with that: everyone understands that intentionally intruding into someone else's
 12 computer systems and stealing information is illegal.

13 Thompson's motion conflates notice that an activity constitutes a crime, which is a
 14 due process question, with evidence of her criminal intent, which is a factual question.
 15 At trial, the government intends to prove that Thompson intentionally trespassed into a
 16 space where she was not supposed to be, stole victim security credentials she had no
 17 permission to use, and downloaded information she had no right to possess. Evidence
 18 that Thompson inadvertently or unintentionally trespassed might be a defense at trial, but
 19 it is not a due process problem. Thompson clearly understands that she is charged with
 20 an intentional trespass, and that either authorization or lack of intent is a defense.

21 Further, Thompson is wrong to claim that this prosecution is unique or novel.
 22 Prosecutions like this one have been routine since the CFAA was enacted. The seminal
 23 case in this area is *United States v. Morris*. In 1988, the early days of "the INTERNET,"
 24 Robert Morris, a first-year student in Cornell University's computer science Ph.D.
 25 program infected numerous university, military, and medical computer systems with an
 26 "INTERNET worm." 928 F.2d at 505-06. To install the worm, Morris used electronic
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 28

³ Thompson's resume advertises her proficiency in proprietary AWS technologies, including S3, EC2, and IAM.

1 mail and a “finger demon” function that learned information about the vulnerabilities of
 2 the targeted computer system. Morris did not intend for his worm to damage the
 3 computers it infected, but it replicated faster than he anticipated, crashing computer
 4 systems and causing thousands of dollars in damage. *Id.* Morris was convicted of
 5 intentionally accessing computers without authorization and causing damage to those
 6 computers, in violation of a former version of 18 U.S.C. § 1030(a)(5)(A).

7 On appeal, Morris argued that his access was authorized because he was
 8 authorized to send electronic mail and use the “finger demon” command. *Id.* at 509. The
 9 Second Circuit disagreed, holding that “Morris’s conduct here falls well within the area
 10 of unauthorized access” because he “did not use either of those features in any way
 11 related to their intended function.” *Id.* Instead, “he found holes in both programs that
 12 permitted him a special and unauthorized access route into other computers.” *Id.* The
 13 court noted that the whole purpose of the CFAA was to punish people “who, with access
 14 to some computers that enable them to communicate on a network linking other
 15 computers, gain access to other computers to which they lack authorization.” *Id.* at 511.

16 Seventeen years after *Morris*, the Fifth Circuit considered *United States v.*
 17 *Phillips*, a case that involved scanning computer networks for security vulnerabilities and
 18 using those vulnerabilities to launch brute-force attack programs that stole encrypted data
 19 and passwords. 477 F.3d 215. Similar to Thompson, the defendant in *Phillips* used a
 20 port scan to find a “back door” into University of Texas servers. *Id.* at 218. The court
 21 expressly rejected the defendant’s argument that he was an “authorized user” of these
 22 servers because he had access to the World Wide Web and had found an open door. *Id.*
 23 at 220. Instead, the court reasoned that the scope of a user’s authorization is typically
 24 analyzed “on the basis of the expected norms of intended use or the nature of the
 25 relationship established between the computer owner and the user.” *Id.* at 219. The court
 26 characterized the defendant’s brute-force attack program as an improper use of the
 27 computer network designed to obtain access to digital data that he was not permitted to
 28 view or use. *Id.* at 220.

1 Several years after *Phillips*, a defendant appealed his CFAA conviction in the
 2 Fourth Circuit, arguing that he was authorized to access his former employer's computer
 3 after he resigned, because his former employer forgot to change the access password.
 4 *United States v. Steele*, 595 F. App'x 208, 210 (4th Cir. 2014) (unpublished). The court
 5 rejected this argument and affirmed his conviction. *Id.* at 211.

6 As these cases illustrate, the *Morris* rule—that the Court should look at whether an
 7 external hacker is using programs and authentication keys as those features were intended
 8 to be used, as opposed to using those features to “find[] holes . . . that permit[] a special
 9 and unauthorized access route”—has been consistently applied in external hacking cases.
 10 *See Morris*, 928 F.2d at 505-06; *see also Norms*, at 1159-61 (advising courts to look to
 11 the *Morris* rule when analyzing the norms of trespass in cyberspace). To the best of the
 12 government’s knowledge, not a single court has accepted the idea that an external hacker
 13 can gain “authorization” to a victim’s computer system by intentionally finding and
 14 exploiting a flaw in a victim’s defenses.

15 Finally, Thompson’s as-applied due process challenge fails because she actually
 16 knew her activity was criminal. To begin, Thompson organized her hacking codes and
 17 stolen victim data in a computer folder named “aws_hacking_shit.” And when
 18 Thompson described her activity to a fellow hacker in an online forum, the other hacker
 19 said, “sketchy shit don’t go to jail plz.” Thompson responded, “Im like > ipredator > s3
 20 on all this shit . . . I wanna get it off my server that’s why Im archiving all of it lol”
 21 meaning she did not expect to get caught because she was covering her tracks by using a
 22 virtual private network (iPredator) and an anonymity tool (TOR):

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<erratic>  12:00 PM
@neoice: <https://termbin.com/6v7c>
msu == michigan state uni
vodafone == vodafone
<neoice>  12:00 PM
ohio-crash
<erratic>  12:00 PM
██████ WAF-Webrole == capitol one
<neoice>  12:00 PM
go spelunking on govcloud lol
<erratic>  12:00 PM
ohio crash == ohio.gov dept of transportation
<neoice>  12:01 PM
oof
<erratic>  12:01 PM
yeah....
<neoice>  12:01 PM
sketchy shit
don't go to jail plz
<erratic>  12:01 PM
wa wa wa wa, wa wa wa wa wa wa waaaaaaa
Im like > ipredator > tor > s3 on all this shit ..
I wanna get it off my server thats why Im archiving all of it lol
its all encrypted
I just dont want it around though
I gotta find somewhere to store it
that infobloxcto one is interesting
they have > 500 docker containers

Screenshot from Netcrave Slack

14 Thompson knew how IAM roles work, and she knew that she was not authorized
15 to use the IAM security credentials she stole:

[11:43:13] <erratic> yeah aws is great, except when someone steals your IAM instance profile that has full access to the account :)

18 And she made the following observation about Adrian Lamo, who was arrested,
19 indicted, and convicted for accessing the New York Times' intranet without
20 authorization—through a misconfigured proxy server—in violation of the CFAA⁴:

22 [10:05:09] <erratic> seriously like
23 [10:05:13] <erratic> the shit I've done
24 [10:05:27] <erratic> way worse than what adrian lamo got arrested for initially

⁴ See *United States v. Lamo*, CR04-011 (S.D.N.Y); see also “U.S. Charges Hacker with Illegally Accessing New York Times Computer Network,” available at: <https://www.justice.gov/archive/criminal/cybercrime/press-releases/2003/lamoCharge.htm> (last visited Dec. 20, 2021); “Hacker Pleads Guilty in Manhattan Federal Court to Illegally Accessing New York Times Computer Network,” available at: <https://www.justice.gov/archive/criminal/cybercrime/press-releases/2004/lamoPlea.htm> (last visited Dec. 20, 2021).

<https://www.justice.gov/archive/criminal/cybercrime/press-releases/2004/iamoPlea.htm> (last visited Dec. 20, 2021).

Thompson even talked about having committed “wire fraud”:

[10:06:23] <erratic> but why do I have to fuckin be the one who's trying to go to jail for wire fraud, to prove their qualified enough to have a job?

In sum, even if one could imagine a situation where a person intentionally accessed computers without authorization and stole other people’s information and computing power—all without realizing she had committed a crime—that is definitely not the situation here. The Court should reject Thompson’s claim that the CFAA counts violate her Fifth Amendment right to due process.

C. There is no First Amendment right to trespass in cyberspace, and, even if there were, the prohibition on external hacking does not violate the First Amendment.

There is no First Amendment right to hack other people's computers. Thompson's First Amendment claim rests on her foundational—and incorrect—proposition that, as a matter of law, private victim information was "made public" because she was able to access it. The court should reject that argument, for the reasons set forth above.

Further, Thompson’s cited authorities provide no support whatsoever for the proposition that her activity was protected under the First Amendment. For example, *Sorrell v. IMS Health Inc.*, involved a law that restricted the sale, disclosure, and use of prescriber-identifying information. 564 U.S. 552, 563-64 (2011). The Supreme Court held that this was a content-based restriction on the speech of the people who lawfully held that information. *Id.* *Sorrell* has no relevance to the CFAA counts, which allege violations of a content-neutral restriction on unauthorized access to other people’s computers. The CFAA criminalizes computer hacking, not speech. *See Nosal II*, 676 F.3d at 858 (focusing the CFAA on the act of computer hacking and declining to read a use-of-information restriction into that statute, consistent with the Supreme Court’s later opinion in *Van Buren*, 141 S.Ct. 1648). The Supreme Court does not share Thompson’s view that conduct can be characterized as “speech” simply because the person engaging in the conduct intends to express an idea. *See, e.g., United States v. O’Brien*, 391 U.S. 367, 377 (1968) (rejecting a defendant’s argument that a law against mutilating a draft

1 registration certificate was protected speech because the defendant burned his draft card
2 to protest the draft and the Vietnam War).

3 Regardless, even if the CFAA somehow implicated Thompson's First Amendment
4 rights, that does not mean she engaged in constitutionally protected activity. A "content-
5 neutral regulation will be sustained under the First Amendment if it advances important
6 governmental interests unrelated to the suppression of free speech and does not burden
7 substantially more speech than necessary to further those interests." *Turner Broad. Sys.,*
8 *Inc. v. FCC*, 520 U.S. 180, 189 (1997) (citing *O'Brien*, 391 U.S. at 376-77). The
9 government clearly has an important and substantial interest in protecting the privacy and
10 integrity of digital information, which is unrelated to speech, and the prohibition on
11 accessing other people's computers without authorization is the bare minimum necessary
12 to further that interest. The CFAA counts do not violate Thompson's First Amendment
13 rights.

14 **IV. CONCLUSION**

15 The CFAA counts are properly pleaded to provide notice of the charges against
16 Thompson. This computer hacking prosecution is a straightforward application of the
17 CFAA, which criminalizes intentionally trespassing into other people's computer
18 networks. For the foregoing reasons, the Court should deny Thompson's motion to
19 dismiss.

20 DATED this 23rd day of December, 2021.

21 Respectfully submitted,

22
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